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CLAIMS:

1. A lamp comprising a spherical body having a front side containing a light portion and a rear side containing a pushbutton switch portion, the outside of said spherical body comprising a substantially entirely spherical surface, said light portion having a partially spherical surface that forms a continuous part of said spherical surface of said spherical body, said pushbutton switch portion also having a partially spherical surface that forms another continuous part of said spherical surface of said spherical body, whereby said lamp, when held by a clamp, can be oriented in any position.

2. The lamp of claim 1 wherein said light portion comprises a transparent window having said partially spherical surface and at least one light-emitting element inside said window.

3. The lamp of claim 2 wherein said light-emitting element inside said window comprises a light-emitting diode.

4. The lamp of claim 1 wherein said pushbutton switch portion comprises a flexible covering membrane and a switch mechanism inside said membrane.

5. The lamp of claim 1 wherein said light portion comprises a transparent window having said partially spherical surface and at least one light inside said window, and said pushbutton switch portion comprises a flexible covering membrane and a switch mechanism inside said membrane.

6. The lamp of claim 1, further including a clamp having a pair of opposite ends with a fork at one end and a clip at the opposite end, said fork comprising a pair of arms shaped to hold said spherical body by friction fit so as to enable said ball to rotate in said arms and be held in any position by friction fit.

7. The lamp of claim 7 wherein said clip has a pair of legs that are springably urged together so as to be able to clip onto a support.

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8. The lamp of claim 7 wherein said fork arms are joined at a base that comprises a ball and said clip legs are joined at an apex that comprises a socket shaped to mate frictionally with said ball.

9. 10. The lamp of claim 1, further including a clamp having a pair of opposite ends with a fork at one end and a clip at the opposite end, said fork comprising a pair of arms shaped to hold said spherical body by friction fit so as to enable said ball to rotate in said arms and be held in any position by friction fit, said clip having a pair of legs that are springably urged together so as to be able to clip onto a support, said fork arms being joined at a base that comprises a ball and said clip legs are joined at an apex that comprises a socket shaped to mate frictionally with said ball.

10. 11. The lamp of claim 1, further including a clamp having a pair of opposite ends with a fork at one end and a clip at the opposite end, said fork comprising a pair of arms shaped to hold said spherical body by friction fit so as to enable said ball to rotate in said arms and be held in any position by friction fit, said clip having a pair of legs that are springably urged together so as to be able to clip onto a support, one of said legs being substantially straight and having a projecting pivot mount, the other of said legs being pivotably and springably pivoted on said pivot mount.

11. 12. The lamp of claim 11 wherein said legs each has a free distal end, and further including a clamping pad at said distal end of each arm.

12. 13. The lamp of claim 12 wherein each of said clamping pads is pivotably mounted.

13. 14. The lamp of claim 1 wherein said light portion comprises a transparent window having said partially spherical surface and at least one light inside said window, said pushbutton switch portion comprises a flexible covering membrane and a switch mechanism inside said membrane, a portion of said spherical body, including said pushbutton switch portion, being removable and replaceable from the rest of said body so as to provide access to the interior of said body.

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15. A lamp, comprising:

a spherical body, the outside of said body comprising a substantially complete spherical surface, said spherical body having a front side containing a light that forms a first portion of said spherical surface and a rear side containing a pushbutton switch that forms a second portion of said spherical surface,

said first portion of said partially spherical surface having a partially spherical shape that forms a continuous part of said spherical surface of said spherical body,

said second portion of said partially spherical surface having a partially spherical shape that forms another continuous part of said spherical surface of said spherical body, and

a clamp having a pair of opposite ends with a fork at one end and a clip at the opposite end, said fork comprising a pair of arms with a concave portion on each shaped to hold said spherical body by friction fit so as to enable said ball to rotate in said arms and be held in any position by friction fit.

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16. The lamp of claim 15 wherein said first portion of said partially spherical surface comprises a transparent window having said partially spherical surface and at least one light-emitting element inside said window.

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17. The lamp of claim 15 wherein said pushbutton switch portion comprises a flexible covering membrane and a switch mechanism inside said membrane.

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18. The lamp of claim 15 wherein said clip has a pair of legs that are springably urged together so as to be able to clip onto a support.

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19. The lamp of claim 15 wherein said fork arms are joined at a base that comprises a ball and said clip legs are joined at an apex that comprises a socket shaped to mate frictionally with said ball.

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20. The lamp of claim 15 wherein said legs each has a free distal end, and further including a clamping pad at said distal end of each arm.